

SOUNDSCOPE MR

FILMOSCOPE LAB

KNX Driver for SOUNDSCOPE MR

The KNX driver for CasaTunes allows control and monitoring of a CasaTunes multi room audio system using KNX. The KNX driver for CasaTunes works with all CasaTunes systems (including both software and hardware matrix systems) and 3rd party audio distribution systems compatible with CasaTunes.

Overview

The CasaTunes multi room audio system is implemented as a virtual device. The CasaTunes driver sends, listens and responds to Group Address Read/Write requests.

INSTALLATION NOTICE: It is recommended you install all your other hardware before installing the keypads.

SAFETY NOTICES

CasaTunes hardware is designed for professional installation only. Follow all NEC (National Electrical Code)/national wiring rules, as well as local codes. The Cat5 cables connecting between the USB6 Keypad Hub and the Keypads should not be routed outside the home (to prevent risk of lightning damage and shock) and are not meant to be connected to any other equipment, such as Ethernet switches.

The Keypads and the USB6 Keypad Hub are low-voltage devices. If you mount them in an electrical box, for safety's sake do not bring any high voltage wiring into the same box.

Please leave the keypads and the USB6 Keypad Hub in their protective bags until you are ready to install them in the electrical box. When handling these devices, try to keep yourself grounded as much as possible to minimize the possibility of damage due to electrostatic discharge.

Please note there is a power inlet covered by a vinyl sheet, just below the USB connector on the USB6 Keypad Hub. It is not used in our current products. If it is used in the future, we will be supplying a DC power supply. The following safety notices are required by UL regarding this connector and any future CasaTunes supplied power supply.

The DC inlet on the USB6 Keypad Hub (just below the USB connector on the front of the wall plate) must only be used with an optional CasaTunes 5VDC power supply with positive center conductor.

Keypads are not designed for outdoor use.

Prerequisites

- **CasaTunes v5.00.190910 or later**
- **A KNX IP Interface** - The KNX driver for CasaTunes requires a KNX IP Interface, and uses KNXnet/IP Tunnelling to send and receive TP messages. The driver automatically discovers all KNX IP interfaces available. By default, CasaTunes will use the first KNX IP Interface it discovers. If you have more than one KNX IP Interface, you can configure which KNX IP interface to use.
- **ETS5** (or similar tool) used to program and configuring your KNX network

The KNX driver for CasaTunes uses the Falcon SDK (v5.7.322 for dot net framework 4.62) to interface with your KNX system (and runs as a daemon process on the CasaTunes music server)

Group Address Organization

To support the large number of rooms that CasaTunes supports, CasaTunes implements a Group Addressing scheme that uses the Main and Middle Groups of a 3-level style Group Addressing scheme, to uniquely identify each room (or zone).

Use the CasaSetup utility to assign a CasaTunes room to a KNX Group Address. CasaTunes supports up to 64 zones or rooms. You can also assign AirPlay rooms and Room Groups.

For more control over the Group Addresses assigned for CasaTunes zones, you can specify a starting offset for the Main Group value. For example, if you configured a starting offset of 5 for the Main Group, then the new Group Address for KNX Zone ID 1 (Office below) would be 5/1/X

SOUNDSCOPE MR

FILMOSCOPE LAB

The screenshot shows the CasaTunes Setup interface. At the top, there is a navigation bar with 'CasaTunes Setup' on the left and 'Advanced Settings', 'Stop CasaTunes', 'Save', and 'Help' on the right. Below this is a 'Hide Menu' button and a language selector set to 'English (United States)'. The main content area is divided into several sections: 'Music Server Settings' (with sub-items: Select Controller, Sources, Rooms), 'Room Groups' (with sub-items: AirPlay, My Music, Music Services, Music Searches), and 'Switch To CasaTunes' (with sub-items: Manage Music Server, Update CasaTunes, Change Time Zone). The 'KNX Zone Settings' section is highlighted and contains a 'Set Main Group Offset' dropdown set to '5/X/X'. Below this is a table with columns 'Group Address' and 'Room'. The table has two rows: one with '5/0/X' and 'Master bedroom', and another with '5/1/X' and 'Office'. Each row has a delete icon (X) to its right. At the bottom of the table is an 'Add KNX Zone' button. The CasaTunes logo is visible in the bottom right corner of the interface.

Rather than assume you want to control every zone via KNX (which could result in a more complex setup and potentially unnecessary KNX bus activity), you must add each zone you wish to control. If you want to configure all your zones, then CasaSetup make this easy as well. Selecting the **Add KNX Zone** button in CasaSetup automatically assigns the next CasaTunes zone.

When the keypad is off, if the keypad does not display the time of day, then the keypad is not setup correctly. Check the keypad is plugged into the USB6 Keypad Hub, and verify the USB6 Keypad Hub is connected to your music server. Next, unplug the keypad and plug it back in to the Hub, and if that does not work, try unplugging and plugging back in the USB6 Keypad Hub. If you still do not see the time of day, please contact CasaTunes Support.

CasaTunes Functions

The **Subgroup** of the 3-level style Group Addressing scheme is used to select a **CasaTunes Function**.

The following **CasaTunes Functions** are available:

Room Control

Function x/x/1

Set Power

R/W: Read/Write

DPT Type: 1 Bit Switch (DPT 1.001)

Select to power a room or room group on/off. Value = 1 to power on, 0 to power off.

Function x/x/2

Toggle Power

R/W: Write Only

DPT Type: 1 Bit Switch (DPT 1.001)

Select to toggle power for a room or room group. Value is ignored. Can be 0 or 1.

Function x/x/3

Set Volume

R/W: Read/Write

DPT Type: 8-Bit Unsigned (DPT 5.010)

Select to set the volume for a room or room group. Value is 0 to 100.

Function x/x/4

Increase/Decrease Volume

R/W: Write Only

DPT Type: 1 Bit Switch (DPT 1.001)

Select to increase or decrease the volume in a room or room group. Set Value to 1 to increase volume, 0 to decrease volume.

Function x/x/5

Set Mute

R/W: Read/Write

DPT Type: 1 Bit Switch (DPT 1.001)

Select to mute a room or room group on/off. Value = 1 will mute room, 0 = unmute.

Function x/x/6

Toggle Mute

R/W: Write Only

DPT Type: 1 Bit Switch (DPT 1.001)

Select to toggle mute for a room or room group. Value is ignored. Can be 0 or 1.

SOUNDSCOPE MR

FILMOSCOPE LAB

Function x/x/7

Set Source

R/W: Read/Write

DPT Type: 8-Bit Unsigned (DPT 5.010)

Select a specific source for a room. Value can be 0 .. Maximum Sources - 1.

Function x/x/8

Select Next/Previous Source

R/W: Write Only

DPT Type: 1 Bit Switch (DPT 1.001)

Select this option to select the next or previous available source for a room or room group.

Function x/x/9

Set Balance

R/W: Read/Write

DPT Type: 8-Bit Signed (DPT 6.010)

Select to set the Balance for a room. Support for Balance may not be available on all matrix systems (and is not available on AirPlay rooms or room groups). The value is usually -X to X, where X is specific to the hardware. You can determine the value of X by viewing the available Balance Settings in the Apps. For example, on a Russound CAV 6.6 matrix, value can be -10 to 10, where -10 is Left Speaker only and 10 is Right Speaker only.

Function x/x/10

Move Balance Right or Left

R/W: Write Only

DPT Type: 1 Bit Switch (DPT 1.001)

Select to move the sound more to the Right or Left Speaker. Set Value to 1 to move Balance to Right speaker, 0 to move Balance to Left speaker.

Function x/x/11

Set Bass Level

R/W: Read/Write

DPT Type: 8-Bit Signed (DPT 6.010)

Select to set the Bass level for a room. Support for Bass may not be available on all matrix systems (and is not available on AirPlay rooms or room groups). The value is usually -X to X, where X is specific to the hardware. You can determine the value of X by viewing the available Bass Settings in the Apps. For example, on a Russound CAV 6.6 matrix, the value can be set between -10 to 10.

SOUNDSCOPE MR

FILMOSCOPE LAB

Function x/x/12

Increase/Decrease Bass Level

R/W: Write Only

DPT Type: 1 Bit Switch (DPT 1.001)

Select to increase or decrease the Bass level for a room. Set Value to 1 to increase, 0 to decrease.

Function x/x/13

Set Treble Level

R/W: Read/Write

DPT Type: 8-Bit Signed (DPT 6.010)

Select to set the Treble level for a room. Support for Bass may not be available on all matrix systems (and is not available on AirPlay rooms or room groups). The value is usually -X to X, where X is specific to the hardware. You can determine the value of X by viewing the available Treble Settings in the Apps. For example, on a Russound CAV 6.6 matrix, the value can be set between -10 to 10.

Function x/x/14

Increase/Decrease Treble Level

R/W: Write Only

DPT Type: 1 Bit Switch (DPT 1.001)

Select to increase or decrease the Treble level for a room. Set Value to 1 to increase, 0 to decrease.

Function x/x/15

Set Loudness

R/W: Read/Write

DPT Type: 1 Bit Switch (DPT 1.001)

Select to turn Loudness Compensation on/off for a room. Support for Loudness Compensation may not be available on all matrix systems (and is not available on AirPlay rooms or room groups). Value can be 0 or 1. To enable Loudness Compensation the value = 1, to disable the value = 0.

Function x/x/16

Toggle Loudness

R/W: Write Only

DPT Type: 1 Bit Switch (DPT 1.001)

Select to toggle Loudness Compensation on/off for a room. Loudness Compensation is not supported on all matrices.

SOUNDSCOPE MR

FILMOSCOPE LAB

Function x/x/27

Set Power For All Zones

R/W: Read/Write

DPT Type: 1 Bit Switch (DPT 1.001)

Select to power all rooms on or off. Value = 1 to power all rooms on, 0 to power all rooms off.

Function x/x/28

Toggle Power For All Zones

R/W: Write Only

DPT Type: 1 Bit Switch (DPT 1.001)

If one or more rooms are powered on, it will power all rooms off. If all rooms are powered off, then it powers all rooms on. Value is ignored. Can be 0 or 1.

Transport Control

Function x/x/17

Play/Pause Music

R/W: Read/Write

DPT Type: 1 Bit Switch (DPT 1.001)

Select to play or pause music. Set value to 1 to play music. Set value to 0 to pause music.

Function x/x/18

Toggle Play/Pause Music

R/W: Write Only

DPT Type: 1 Bit Switch (DPT 1.001)

Toggles between playing and pausing the music in the current room or room group. Value is ignored. Can be 0 or 1.

Function x/x/19

Stop Music

R/W: Write Only

DPT Type: 1 Bit Switch (DPT 1.001)

Select to Stop music playback. It is recommended to Pause music instead of Stop music. Value is ignored. Can be 0 or 1.

Function x/x/20

Select Next or Previous Song

R/W: Write Only

DPT Type: 1 Bit Switch (DPT 1.001)

Select to move to the next or previous song. Setting the Value to 1 moves to the next song. Setting the Value to 0 will move playback to the beginning of the song if you have played more than 10 seconds in the current song. If you are less than 10 seconds into the song, playback moves to the previous song.

Function x/x/29

Enable/Disable Repeat Mode

R/W: Read/Write

DPT Type: 1 Bit Switch (DPT 1.001)

Enable or disable repeat. Value = 1 to enable, 0 to disable.

Function x/x/30

Enable/Disable Shuffle Mode

R/W: Read/Write

DPT Type: 1 Bit Switch (DPT 1.001)

Enable or disable shuffle mode. Value = 1 to enable, 0 to disable.

Music Control

Function x/x/21

Play Playlist

R/W: Write Only

DPT Type: 8-Bit Unsigned (DPT 5.010)

Select to play a specific playlist in this room or room group. Value can be 0 to maximum number of playlists - 1. You can view the playlists and their index in CasaSetup.

Function x/x/22

Select Next/Previous Playlist

R/W: Write Only

DPT Type: 1 Bit Switch (DPT 1.001)

Select this to play the **next** or **previous playlist** in the list. Set the value to 1 to play the **next** playlist, or 0 to play the **previous** playlist. If you are at the first available playlist, and you set the value to 0, then the last available playlist is played. If you are on the last available playlist, and you set the value to 1, it plays the first available playlist.

Function x/x/23

Play Chime

R/W: Write Only

DPT Type: 8-Bit Unsigned (DPT 5.010)

Select to play a specific chime from the list of available Chimes in CasaSetup. Use this to play specific sound files. Value can be 0 to maximum number of chimes - 1.

Function x/x/24

Set Metadata Line 1

R/W: Read/Write

DPT Type: 14 8859_1 Characters (DPT 16.001)

Select this option to read/write Line 1 of CasaTunes metadata. Typically this is the name of the song that is playing.

Function x/x/25

Set Metadata Line 2

R/W: Read/Write

DPT Type: 14 8859_1 Characters (DPT 16.001)

Select this option to read/write Line 2 of CasaTunes metadata. Typically this is the name of the artist for the song that is playing.

Function x/x/26

Set Metadata Line 3

R/W: Read/Write

DPT Type: 14 8859_1 Characters (DPT 16.001)

Select this option to read/write Line 3 of CasaTunes metadata. Typically this is the album name of the song that is playing, playlist name, or station name.

Scenes

Function x/x/40

Select Scene 1

R/W: Write Only

DPT Type: 1 Bit Switch (DPT 1.001)

Executes all the commands configured for Scene 1 in CasaSetup. Can include CasaTunes and other commands. Value is ignored. Can be 0 or 1.

Function x/x/41

Select Scene 2

R/W: Write Only

DPT Type: 1 Bit Switch (DPT 1.001)

Executes all the commands configured for Scene 2 in CasaSetup. Can include CasaTunes and other commands. Value is ignored. Can be 0 or 1.

Function x/x/42

Select Scene 3

R/W: Write Only

DPT Type: 1 Bit Switch (DPT 1.001)

Executes all the commands configured for Scene 3 in CasaSetup. Can include CasaTunes and other commands. Value is ignored. Can be 0 or 1.

Function x/x/43

Select Scene 4

R/W: Write Only

DPT Type: 1 Bit Switch (DPT 1.001)

Executes all the commands configured for Scene 4 in CasaSetup. Can include CasaTunes and other commands. Value is ignored. Can be 0 or 1.

Function x/x/44

Select Scene 5

R/W: Write Only

DPT Type: 1 Bit Switch (DPT 1.001)

Executes all the commands configured for Scene 5 in CasaSetup. Can include CasaTunes and other commands. Value is ignored. Can be 0 or 1.

Function x/x/45

Select Scene 6

R/W: Write Only

DPT Type: 1 Bit Switch (DPT 1.001)

Executes all the commands configured for Scene 6 in CasaSetup. Can include CasaTunes and other commands. Value is ignored. Can be 0 or 1.

Function x/x/46

Select Scene 7

R/W: Write Only

DPT Type: 1 Bit Switch (DPT 1.001)

Executes all the commands configured for Scene 7 in CasaSetup. Can include CasaTunes and other commands. Value is ignored. Can be 0 or 1.

Function x/x/47

Select Scene 8

R/W: Write Only

DPT Type: 1 Bit Switch (DPT 1.001)

Executes all the commands configured for Scene 8 in CasaSetup. Can include CasaTunes and other commands. Value is ignored. Can be 0 or 1.

Function x/x/48

Select Scene 9

R/W: Write Only

DPT Type: 1 Bit Switch (DPT 1.001)

Executes all the commands configured for Scene 9 in CasaSetup. Can include CasaTunes and other commands. Value is ignored. Can be 0 or 1.

Function x/x/49

Select Scene 10

R/W: Write Only

DPT Type: 1 Bit Switch (DPT 1.001)

Executes all the commands configured for Scene 10 in CasaSetup. Can include CasaTunes and other commands. Value is ignored. Can be 0 or 1.

SOUNDSCOPE MR

FILMOSCOPE LAB

Using CasaSetup

To configure the KNX Driver for CasaTunes you use the CasaSetup administration utility. To start CasaSetup for KNX enter the following in your browser:

PC: <http://casaserver/casasetup/knx.aspx>

MAC: <http://casaserver.local/casasetup/knx.aspx>

You should see a screen similar to:

CasaTunes Setup [Advanced Settings](#) [Stop CasaTunes](#) [Save](#) [Help](#)

▼ Hide Menu English (United States) ▾

Music Server Settings

- Select Controller
- Sources
- Rooms

Room Groups

- AirPlay
- My Music
- Music Services
- Music Searches

Switch To CasaTunes

- Manage Music Server
- Update CasaTunes
- Change Time Zone

General Settings

General KNX Settings

- Enable KNX Driver for CasaTunes

CasaTunes

SOUNDSCOPE MR

FILMOSCOPE LAB

Step 1: Enable the KNX Driver for CasaTunes. After a few seconds, you will see a screen similar to:

The screenshot shows the CasaTunes Setup interface. At the top, there is a navigation bar with links for 'Advanced Settings', 'Stop CasaTunes', 'Save', and 'Help'. Below this is a 'Hide Menu' button and a language selector set to 'English (United States)'. The main content area is divided into three columns of settings. The first column includes 'Music Server Settings' (Select Controller, Sources, Rooms), 'General Settings' (Zones, Playlists, Chimes, Feedback, Scenes), and 'General KNX Settings' (Enable KNX Driver for CasaTunes, Preferred KNX IP Interface: 192.168.1.71). The second column includes 'Room Groups' (AirPlay, My Music, Music Services, Music Searches). The third column includes 'Switch To CasaTunes', 'Manage Music Server', 'Update CasaTunes', and 'Change Time Zone'. The CasaTunes logo is visible in the bottom right corner.

By default, the driver uses the first available KNX IP Interface it discovers. If you have more than one KNX IP Interface, and you want to specify a specific KNX IP Interface to use, then select it from the list in the **Preferred KNX IP Interface** drop down.

Step 2: Next, add the CasaTunes rooms or room groups you want to control from KNX. Select the Zones option from the list on the left hand side, and select **Add KNX Zone** for each CasaTunes room you want to add. Click on the **X** to delete a KNX zone. You can specify an offset to use for the Main Group in the Group Address, for example in the screen shot below, we selected 5/X/X.

SOUNDSCOPE MR

FILMOSCOPE LAB

The screenshot shows the CasaTunes Setup interface. At the top, there is a navigation bar with 'CasaTunes Setup' on the left and 'Advanced Settings', 'Stop CasaTunes', 'Save', and 'Help' on the right. Below this is a 'Hide Menu' button and a language dropdown set to 'English (United States)'. The main content area is divided into three columns: 'Music Server Settings' (with sub-items: Select Controller, Sources, Rooms), 'Room Groups' (with sub-items: AirPlay, My Music, Music Services, Music Searches), and 'Switch To CasaTunes' (with sub-items: Manage Music Server, Update CasaTunes, Change Time Zone). Below this is a 'General Settings' sidebar with options for Zones, Playlists, Chimes, Feedback, and Scenes. The main content area is titled 'KNX Zone Settings' and features a 'Set Main Group Offset' dropdown set to '5/X/X'. Below this is a table with columns 'Group Address' and 'Room'. The table contains two entries: '5/0/X' for 'Master bedroom' and '5/1/X' for 'Office'. Each entry has a delete 'X' icon to its right. At the bottom of the table is an 'Add KNX Zone' button. The CasaTunes logo is visible in the bottom right corner of the interface.

CasaTunes uses the Main and Middle Groups of a 3-tier Group Address to specify the KNX Zone ID, and the Subgroup to specify the CasaTunes function.

A KNX Zone ID is mapped to a Group Address as follows:



$\text{KNX Zone ID} = (\text{Main Group value} * 8) + \text{Middle Group value}$

So, for example, KNX Zone ID 20 would be mapped to the Group Address 2/4/x

Or, $\text{KNX Zone ID} = (2 * 8) + 4 = 20$

SOUNDSCOPE MR

FILMOSCOPE LAB

Step 3: If you want to select playlists from KNX, then configure your playlists. If you are planning to select specific playlists, for example, setting up a button on a KNX panel to select a specific playlist, or adding a command to play a specific playlist as part of a scene, you should select «**Select Custom Playlists**» from the **Select Playlists Type** drop down. If you plan to simply have one or two buttons to scroll through your playlists (Select Next or Previous Playlist), you should select «**All CasaTunes Playlists**» from the **Select Playlists Type** drop down.

If you select custom playlists, then add all the playlists you want to include in your list, by clicking on the **Add KNX Playlist** button. To delete a playlist from the list, click on the **X** button.

The **KNX Value** specifies the value to use in the Play Playlist Function.

The screenshot shows the CasaTunes Setup interface. At the top, there is a navigation bar with 'Advanced Settings', 'Stop CasaTunes', 'Save', and 'Help'. Below this is a 'Hide Menu' button and a language selector set to 'English (United States)'. The main content area is divided into several sections: 'Music Server Settings' (with sub-items: Select Controller, Sources, Rooms), 'Room Groups' (with sub-items: AirPlay, My Music, Music Services, Music Searches), and 'Switch To CasaTunes' (with sub-items: Manage Music Server, Update CasaTunes, Change Time Zone). The 'Playlists Settings' section is highlighted and contains a 'Select Playlists Types' dropdown menu set to 'Select Custom Playlists'. Below this is a table with columns for 'KNX Value' and 'Playlist Name'. The table lists three playlists: KNX Value 0 with name 'Colbie Caillat', KNX Value 1 with name 'Diana Krall', and KNX Value 2 with name 'Easy listening'. Each row has an 'X' button to the right for deletion. At the bottom of the table is an 'Add KNX Playlist' button. The CasaTunes logo is visible in the bottom right corner of the interface.

KNX Value	Playlist Name	
0	Colbie Caillat	X
1	Diana Krall	X
2	Easy listening	X

SOUNDSCOPE MR

FILMOSCOPE LAB

Step 4: If you want to play specific chimes from KNX, then configure your Chimes. Add all the chimes you want to include in your list, by clicking on the **Add KNX Chime** button. To delete a chime from the list, click on the **X** button.

The **KNX Value** specifies the value to use in the Play Chime Function.

Step 5: Select the **Feedback** menu item to provide fine grain control over enabling or disabling feedback for a CasaTunes function. You can select which functions send out a telegram when the value changes.

For example, if you check **Enable Power Feedback**, then anytime the power changes for a room, even if the power for the room was changed using an external control system, like the CasaTunes App, the KNX driver will write to the Group Address for the room and power function with the updated state value. This is important if your KNX keypad that displays state information (for example, using LEDs). Enabling feedback ensures the LED is properly updated to reflect the power state of a room. On the other hand if your KNX Keypad or device does not display state information then you can disable feedback, and minimize KNX bus traffic.

The screenshot shows the CasaTunes Setup interface. At the top, there is a navigation bar with 'Advanced Settings', 'Stop CasaTunes', 'Save', and 'Help'. Below this is a 'Hide Menu' button and a language dropdown set to 'English (United States)'. The main content area is divided into three columns: 'Music Server Settings' (with sub-items: Select Controller, Sources, Rooms), 'Room Groups' (with sub-items: AirPlay, My Music, Music Services, Music Searches), and 'Switch To CasaTunes' (with sub-items: Manage Music Server, Update CasaTunes, Change Time Zone). Below this, there are two tabs: 'General Settings' and 'Feedback Settings'. The 'Feedback Settings' tab is active and shows a list of checkboxes for enabling various feedback functions: Enable Power feedback, Enable Volume feedback, Enable Mute feedback, Enable Source feedback, Enable Balance feedback, Enable Bass feedback, Enable Treble feedback, Enable Loudness feedback, Enable Play/Pause feedback, Enable Metadata Line 1 feedback, Enable Metadata Line 2 feedback, Enable Metadata Line 3 feedback, and Enable All Zones Power feedback. The 'CasaTunes' logo is visible in the bottom right corner of the interface.

SOUNDSCOPE MR

FILMOSCOPE LAB

Step 6: The KNX Driver for CasaTunes includes support for up to 10 **scenes**. A scene is simply a sequence of commands (Group Addresses + Values) that are executed in sequence. They can be used to configure multiple rooms or multiple functions and you can assign these to a single button. You can even add functionality for non-CasaTunes devices.

Select the scene you want to create or edit from the **Select Scene** drop down.

Next, enter the **Group Address**, select the **DPT type** from the drop down list, and enter the **Value** to write to the Group Address. To add the command, click on the **+** button. Commands are always appended to a scene.

To delete a command from a scene, select the scene, then click on the **X** to remove the command from the scene.

In the example below, we have configured a scene that powers on a room, sets the volume in the room to 15, changes the source to the first source, and then plays the playlist with a KNX Value of 2.

The screenshot shows the CasaTunes Setup interface. At the top, there are navigation links: [Advanced Settings](#), [Stop CasaTunes](#), [Save](#), and [Help](#). Below the navigation is a **Hide Menu** button and a language selector set to **English (United States)**. The main menu is divided into three sections: **Music Server Settings** (with sub-items: Select Controller, Sources, Rooms), **Room Groups** (with sub-items: AirPlay, My Music, Music Services, Music Searches), and **Switch To CasaTunes** (with sub-items: Manage Music Server, Update CasaTunes, Change Time Zone). The **Scenes Settings** section is active, showing a table of commands for **Scene 1**. The table has columns for **Group Address**, **Value(s) (Raw Bytes)**, and a delete button (**X**). Below the table is a form to add a new command, with fields for **x/x/x**, **DPT 1.001: Switch - 1 Bit**, and **value**, followed by a **+** button. A note at the bottom states: "Note: For the Value field, enter 0 or 1, a byte value, or a string depending on the DPT type".

Group Address	Value(s) (Raw Bytes)	
0/1/1	1	X
0/1/3	15	X
0/1/8	0	X
0/1/27	2	X

Next Steps

Now that you have configured the KNX Driver for CasaTunes, the next step is to use the ETS5 tool (or equivalent), to configure your Group Addresses for the CasaTunes functions you want to use, and for each CasaTunes room or room group you want to control, and then assign these Group Addresses to the KNX panels and devices you are planning to use.

Using ETS 5, you can define the CasaTunes Functions to use for one room, then copy and paste these into another room, greatly simplifying and speeding up the configuration process.

For more information on how to use ETS5 and configure your KNX network, please refer to the [KNX site](#).

@ 2019 CasaTools, LLC